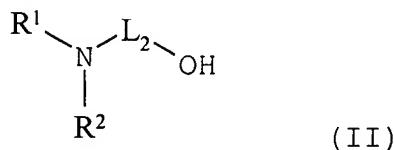


CLAIMS LISTING

1. (currently amended) An ink jet recording material comprising a support and at least one ink receiving layer containing a water-soluble or water-dispersible polymer, wherein said polymer comprises a repeating monomeric unit having a moiety capable of chelating boric acid by means of at least one nitrogen containing functional group and at least one hydroxyl group thereby forming a five- or six-membered ring and wherein said repeating monomeric unit is represented by formula (II):



wherein,

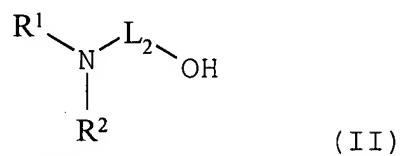
R^1 is selected from the group consisting of a substituted saturated aliphatic group, an unsubstituted saturated aliphatic group, a substituted unsaturated aliphatic group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heteroaryl group;

R^2 is selected from the group consisting of hydrogen, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heteroaryl group; L_2 represents a linking group containing two or three carbon atoms which may be further substituted or may be part of a ring; any of L_2 , R^1 and R^2 may combine to form a ring, and at least one of L_2 , R^1 and R^2 comprises an ethylenically unsaturated polymerizable group.

2. (previously presented) Ink jet recording material according to claim 1 wherein said linking group L_2 contains two or three straight chain carbon atoms which may be further substituted or may be part of a ring.

3. (currently amended) An ink jet recording material comprising a support and at least one ink receiving layer containing a water-soluble or water-dispersible polymer, wherein said polymer comprises a repeating monomeric unit having a moiety capable of chelating boric acid by means of

at least one nitrogen containing functional group and at least one hydroxyl group thereby forming a five- or six-membered ring and wherein said repeating monomeric unit is represented by formula (II):



wherein,

R^1 is selected from the group consisting of a substituted saturated aliphatic group, an unsubstituted saturated aliphatic group, a substituted unsaturated aliphatic group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heteroaryl group;

R^2 is selected from the group consisting of hydrogen, a substituted or unsubstituted, saturated or unsaturated aliphatic group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heteroaryl group;

L_2 represents a linking group containing two or three carbon atoms which may be further substituted or may be part of a ring;

any of L_2 , R^1 and R^2 may combine to form a ring, and

at least one of L_2 , R^1 and R^2 comprises an ethylenically unsaturated polymerizable group wherein said linking group L_2 contains two or three straight chain carbon atoms which may be further substituted or may be part of a ring and ~~Ink jet recording material according to claim 2~~ wherein any of L_2 , R^1 and R^2 is substituted by one or more groups comprising one or more additional hydroxyl group, amino groups and amide groups.

4. (currently amended) Ink jet recording material according to ~~claim 2~~ claim 3 wherein said polymer comprises at least one other repeating monomeric unit chosen from the list consisting of vinyl acetate, vinyl alcohol, dimethylaminoethyl methacrylate, vinyl amine, vinyl formamide, vinylacetamide, diallyl amine, vinyl versatate, butyral acrylate, styrene, dimethylaminoethyl acrylate, methacryloxyethyltrimethyl ammonium chloride, ethylacrylate, butylmethacrylate, ~~styrene~~, methyl methacrylate, butyl acrylate, 2-ethylhexyl methacrylate, ~~vinyl amine~~, diallyldimethyl ammonium chloride, 2-ethylhexyl acrylate, methacryloxyethyldimethyl-benzylammonium chloride,

acryloxyethyldimethyl benzyl ammonium chloride, vinyl caprolactam and vinyl pyrrolidone.

5. (currently amended) Ink jet recording material according to ~~claim 2~~ claim 3 wherein said polymer is a latex.

6. (currently amended) Ink jet recording material according to ~~claim 2~~ claim 3 wherein said polymer is a copolymer with at least one other monomer.

7. (currently amended) Ink jet recording material according to ~~claim 2~~ claim 3 wherein said ink receiving layer further comprises a pigment.

8. (original) Ink jet recording material according to claim 7 wherein said pigment is an inorganic pigment.

9. (original) Ink jet recording material according to claim 8 wherein inorganic pigment is chosen from the group consisting of aluminum oxide, boehmite, pseudo-boehmite, gibbsite,

bayerite, aluminum hydroxide, silica, clay, calcium carbonate, zirconia, and mixed inorganic oxides/hydroxides.

10. (currently amended) Ink jet recording material according to ~~claim 2~~ claim 3 wherein said ink receiving layer further contains a hardener capable of crosslinking said polymer.

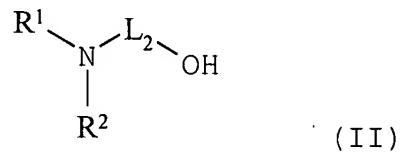
11. (original) Ink jet recording material according to claim 10 wherein said hardener is boric acid.

12. (canceled)

13. (previously presented) Ink jet recording material according to claim 1, wherein L_2 is selected from the group consisting of $-\text{CH}_2\text{CH}_2-$, $-\text{CH}_2\text{CH}_2\text{CH}_2-$, $-\text{CH}_2\text{CH}(\text{CH}_3)-$, $-\text{CH}(\text{CH}_3)\text{CH}_2-$, $-\text{CH}_2\text{CH}(\text{CH}_2\text{OH})-$, $-\text{CH}(\text{CH}_2\text{OH})\text{CH}_2-$, $-\text{CH}=\text{CH}-$, $-\text{CH}=\text{CHCH}_2-$, $-\text{C}\equiv\text{CCH}_2-$, $-\text{CH}_2\text{CH}=\text{CH}-$, $-\text{CH}_2\text{C}\equiv\text{C}-$, $-\text{CH}=\text{C}(\text{CH}_3)-$ and $-\text{C}(\text{CH}_3)=\text{CH}-$.

14. (currently amended) An ink jet recording material comprising a support and at least one ink receiving layer

containing a water-soluble or water-dispersible polymer,
wherein said polymer comprises a repeating monomeric unit
having a moiety capable of chelating boric acid by means of
at least one nitrogen containing functional group and at
least one hydroxyl group thereby forming a five- or six-
membered ring and wherein said repeating monomeric unit is
represented by formula (II):



wherein,

R^1 is selected from the group consisting of a substituted
saturated aliphatic group, an unsubstituted saturated
aliphatic group, a substituted unsaturated aliphatic group, a
substituted or unsubstituted aryl group, and a substituted or
unsubstituted heteroaryl group;

R^2 is selected from the group consisting of hydrogen, a
substituted or unsubstituted, saturated or unsaturated
aliphatic group, a substituted or unsubstituted aryl group,
and a substituted or unsubstituted heteroaryl group;

L_2 represents a linking group containing two or three carbon

atoms which may be further substituted or may be part of a ring;

any of L₂, R¹ and R² may combine to form a ring, and
at least one of L₂, R¹ and R² comprises an ethylenically
unsaturated polymerizable group ~~Ink jet recording material~~
~~according to claim 1~~ wherein any of L₂, R¹ and R² is
substituted by one or more groups comprising one or more
additional hydroxyl group, amino groups and amide groups.

15. (currently amended) Ink jet recording material according to
claim 1 wherein said polymer comprises at least one other
repeating monomeric unit chosen from the list consisting of
vinyl acetate, vinyl alcohol, dimethylaminoethyl
methacrylate, vinyl amine, vinyl formamide, vinylacetamide,
diallyl amine, vinyl versatate, butyral acrylate, styrene,
dimethylaminoethyl acrylate, methacryloxyethyltrimethyl
ammonium chloride, ethylacrylate, butylmethacrylate, ~~styrene~~,
methyl methacrylate, butyl acrylate, 2-ethylhexyl
methacrylate, ~~vinyl amine~~, diallyldimethyl ammonium chloride,
2-ethylhexyl acrylate, methacryloxyethyldimethyl-

benzylammonium chloride, acryloxyethyldimethyl benzyl ammonium chloride, vinyl caprolactam and vinyl pyrrolidone.

16. (previously presented) Ink jet recording material according to claim 1 wherein said polymer is a latex.
17. (previously presented) Ink jet recording material according to claim 1 wherein said polymer is a copolymer with at least one other monomer.
18. (previously presented) Ink jet recording material according to claim 1 wherein said ink receiving layer further comprises a pigment.
19. (original) Ink jet recording material according to claim 18 wherein said pigment is an inorganic pigment.
20. (original) Ink jet recording material according to claim 19 wherein inorganic pigment is chosen from the group consisting of aluminum oxide, boehmite, pseudo-boehmite, gibbsite,

bayerite, aluminum hydroxide, silica, clay, calcium carbonate, zirconia, and mixed inorganic oxides/hydroxides.

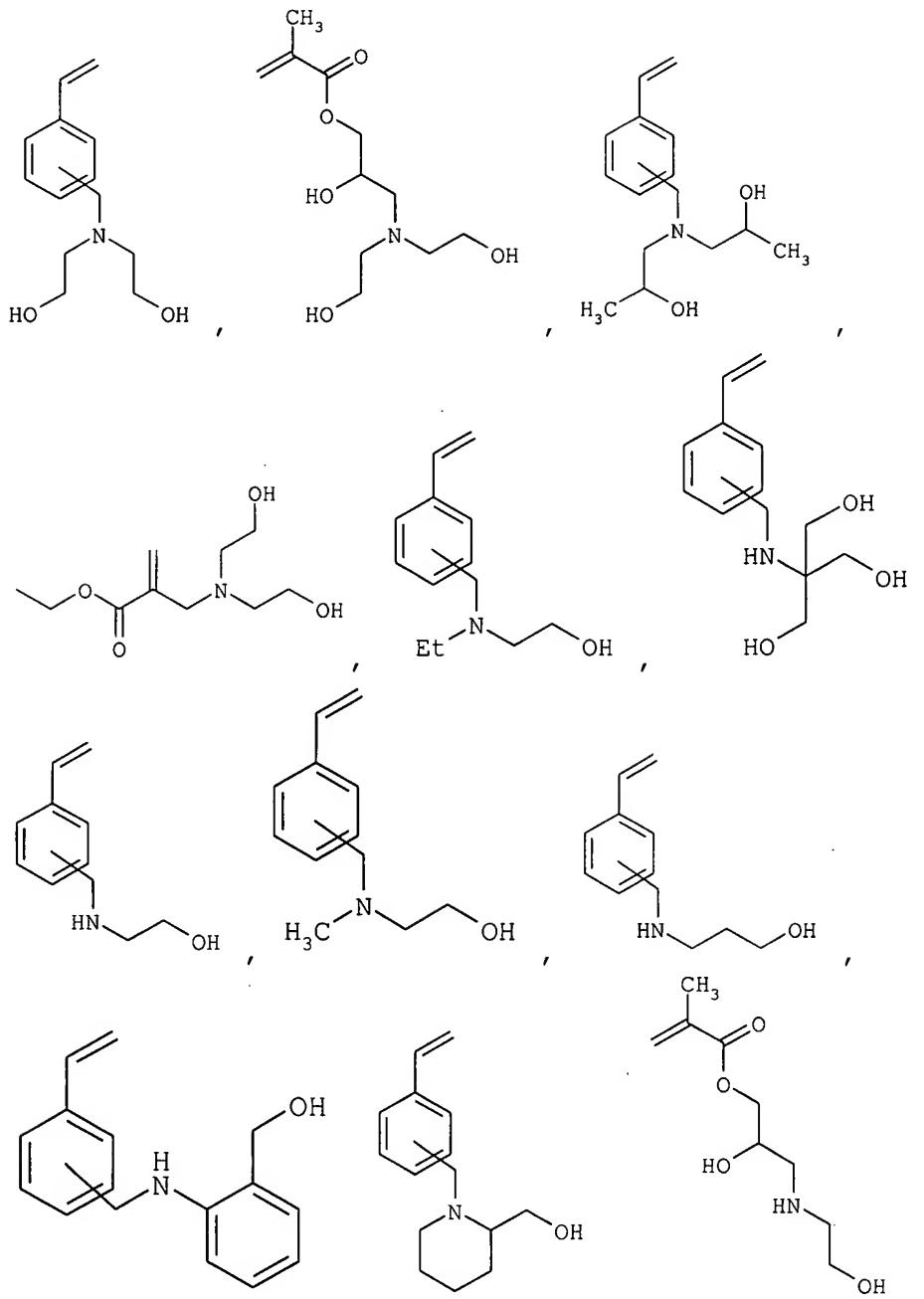
21. (currently amended) Ink jet recording material according to ~~claim 1~~ claim 14 wherein said ink receiving layer further contains a hardener capable of crosslinking said polymer.

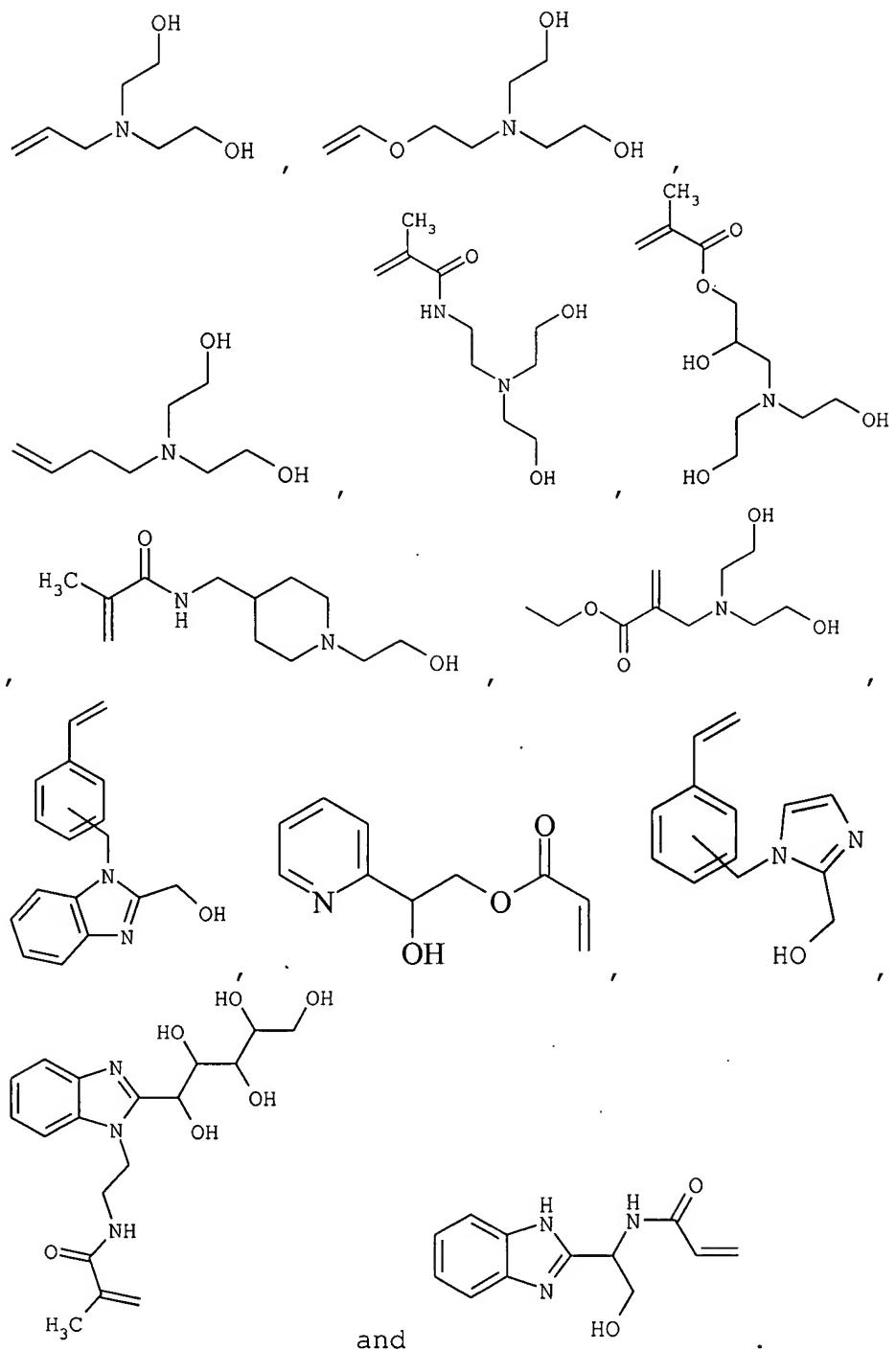
22. (original) Ink jet recording material according to claim 21 wherein said hardener is boric acid.

23-34. (canceled)

35. (previously presented) An ink jet recording material comprising a support and at least one ink receiving layer containing a water-soluble or water-dispersible polymer, wherein said polymer comprises a repeating monomeric unit having a moiety capable of chelating boric acid by means of at least one nitrogen containing functional group and at least one hydroxyl group thereby forming a five- or six-membered ring wherein said monomeric unit is

represented by a monomeric unit selected from the group consisting of:





36. (new) Ink jet recording material according to claim 3,
wherein L2 is selected from the group consisting of
-CH₂CH₂-; -CH₂CH₂CH₂-; -CH₂CH(CH₃)-; -CH(CH₃)CH₂-;
-CH₂CH(CH₂OH)-; -CH(CH₂OH)CH₂-; -CH=CH-; -CH=CHCH₂-;
-C=CCH₂-; -CH₂CH=CH-; -CH₂C=C-; -CH=C(CH₃)- and
-C(CH₃)=CH-.

37. (new) Ink Jet recording material according to claim
14, wherein said polymer comprises at least one other
repeating monomeric unit chosen from the list
consisting of vinyl acetate, vinyl alcohol,
dimethylaminoethyl methacrylate, vinyl amine, vinyl
formamide, vinylacetamide, diallyl amine, vinyl
versatate, butyral acrylate, styrene,
dimethylaminoethyl acrylate,
methacryloxyethyltrimethyl ammonium chloride,
ethylacrylate, butylmethacrylate, methyl
methacrylate, butyl acrylate, 2-ethylhexyl
methacrylate, diallyldimethyl ammonium chloride, 2-
ethylhexyl acrylate, methacryloxyethyldimethyl-
benzylammonium chloride, acryloxyethyldimethyl benzyl

ammonium chloride, vinyl caprolactam and vinyl pyrrolidone.

38. (new) Ink jet recording material according to claim 14, wherein said polymer is a latex.

39. (new) Ink jet recording material according to claim 14, wherein said polymer is a copolymer of at least one other monomer.

40. (new) Ink jet recording material according to claim 14, wherein said ink receiving layer further comprises a pigment.

41. (new) Ink jet recording material according to claim 40, wherein said pigment is an inorganic pigment.

42. (new) Ink jet recording material according to claim 41, wherein said inorganic pigment is chosen from the group consisting of aluminium oxide, boehmite, pseudo-boehmite, gibbsite, bayerite, aluminium hydroxide, silica, clay, calcium carbonate, zirconia and mixed inorganic oxides/hydroxides.

43. (new) Ink jet recording material according to claim 14, wherein said ink receiving layer further contains a hardener capable of crosslinking said polymer.

44. (new) Ink jet recording material according to claim
43, wherein said hardener is boric acid.

45. (new) Ink jet recording material according to claim
14, wherein L_2 is selected from the group consisting
of:

$-\text{CH}_2\text{CH}_2-$; $-\text{CH}_2\text{CH}_2\text{CH}_2-$; $-\text{CH}_2\text{CH}(\text{CH}_3)-$; $-\text{CH}(\text{CH}_3)\text{CH}_2-$;
 $-\text{CH}_2\text{CH}(\text{CH}_2\text{OH})-$; $-\text{CH}(\text{CH}_2\text{OH})\text{CH}_2-$; $-\text{CH}=\text{CH}-$; $-\text{CH}=\text{CHCH}_2-$;
 $-\text{C}=\text{CCH}_2-$; $-\text{CH}_2\text{CH}=\text{CH}-$; $-\text{CH}_2\text{C}=\text{C}-$; $-\text{CH}=\text{C}(\text{CH}_3)-$ and
 $-\text{C}(\text{CH}_3)=\text{CH}-$.